

Insect Natural Enemies Mass Reared for Research and Colonization Projects

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Each year one or more insect natural enemies are mass reared for a variety of projects conducted by the Biological Control Program or other state and federal agencies. These research or colonization projects may not be reported elsewhere in our annual summary. Below we list these projects, the agency primarily involved in the work, and a description of the project goals. This past year, 2002, program staff reared natural enemies for control of the Pink Hibiscus Mealybug, *Maconellicoccus hirsutus*, cotton aphid, *Aphis gossypii*, the western tarnished plant bug, *Lygus hesperus*, and the red gum lerp psyllid, *Glycaspis bliteus*.

Natural Enemy	Host	Source Population	Agency Receiving Shipment	Project Description	Stage Delivered	Total Insects Delivered
<i>Psyllaephagus Bliteu sp</i>	Red gum lerp psyllid	Australia	UC CDFA	Colonization in nursery sites, state-wide	adults	31,448
<i>Aphelinus nr paramali</i>	Cotton aphid		Merced County	Colonization in nursery sites	Adults and pupae	600
			Madera County	Colonization in nursery sites	Adults and pupae	2,300
<i>Aphelinus gossypii</i>			Kern County	Colonization in nursery sites	Adults and pupae	14,800
<i>Aphelinus gossypii</i>			Merced County	Colonization in nursery sites	Adults and pupae	1,200
			Madera County	Colonization in nursery sites	Adults and pupae	8,600
			Kern County	Colonization in nursery sites	Adults and pupae	100,050
<i>Peristenus stygicus</i>	lygus	Italy (Umbria) Spain (Granada)	UC CDFA USDA	Open release, alfalfa, central, northern CA	adults	3,091
<i>Peristenus igoneutis</i>		Spain, Catalognia	UC CDFA USDA	Open release, alfalfa, central, northern CA	adults	2,908
<i>Anagyrus kamali</i>	Pink hibiscus mealybug	Egypt	CDFA Imperial Valley	colonization	adults	97,850
<i>Anagyrus kamali</i>		Egypt	Mexicali Valley	colonization	adults	38,250
<i>Anagyrus kamali</i>		Egypt	Florida	colonization	adults	63,600
<i>Gyranusoidea indica</i>		Egypt Pakistan Australia	CDFA Mexico French West Indies	colonization	adults	13,800